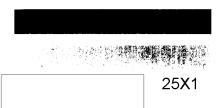
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(See inside cover)





Summary Report

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

MODIFIED FAN SONG RADAR, LAUNCH COMPLEX A, SARY-SHAGAN MISSILE TEST CENTER, USSR (S)

JUNE 1977

SR-031/77

25X1

Copy 133

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Top Secre	et CHESS RUFF	25X1						
		25X1						

Modified FAN SONG Radar, Launch Complex A, Sary-Shagan Missile Test Center, USSR (S)	
a modified FAN SONG radar was identified in the guidance area for launch site 1 at Sary-Shagan launch complex A. A rectangular reflector, with an antenna feed positioned forward of the reflector, was attached to the end of the horizontal trough where the control dish is normally attached. No dishes were observed attached to the horizontal trough	25X1 25X1
tached to the horizontal trough. The size of the reflector appears to be very similar to that of the reflector on the van-mounted WILD CARD radar parked near the modified FAN SONG.	25X1
at launch site 2 Six SA-2 launchers were positioned near the FAN SONG E at site 2 the three dishes associated with the FAN SONG E had been removed. Two of the dishes were observed in a	25X1 25X1
nearby trailer. A rectangular reflector had probably been attached to the end of the horizontal trough. the trailer with the two dishes had been removed from the site, but the probable modified FAN SONG and the six SA-2 launchers were still present. the probable modified FAN SONG and the six launchers were no longer present at site 2. They had probably been moved to nearby site 1 where six additional SA-2 launchers and a modified FAN SONG were observed.	25X1 25X1 25X1
(TSCRZU) A similar modified FAN SONG was observed at launch site 1 on photography and remained there until August 1972.* That particular FAN SONG had reflector attached to the end of the horizontal trough with a probable antenna feed in front of the reflector. It also had a dish, mounted on the horizontal trough in approximately the same position previously occupied by one of the E dishes.	25X1 25X1 25X1 25X1 25X1
	25X1
*NPIC RCA-19/0009/72, Launch Complex A and SAM Launch Complex B04-5, Sary-Shagan Missile Test Center, Feb 72 (TOP SECRET CHESS RUFF	25X1 25X1
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25X1



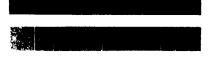
List of Conversion Factors by Classification

UNITS OF LENGTH

UNITS OF MASS

IF YOU HAVE	MULTIPLY BY	TO OBTAIN	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
MILLIMETERS	0.0394	INCHES	KILOGRAMS	2.2046	POUNDS(AVOIR.)
CENTIMETERS	0.3937	INCHES	POUNDS(AVOIR.)	0.4536	KILOGRAMS
INCHES	25.4000	MILLIMETERS	SHORT TONS	0.9072	METRIC TONS
INCHES	2.5400	CENTIMETERS	METRIC TONS	1.1023	SHORT TONS
FEET	0.3048	METERS	METRIC TONS	0.9842	LONG TONS
FEET	0.0003	KILOMETERS	LONG TONS	1.0160	METRIC TONS
YARDS	0.9144	METERS			
METERS	3.2808	FEET			
METERS	0.0005	MILES(NAUTICAL)			
METERS	1 0936	YARDS	UNITS OF VOLUME		UME
KILOMETERS	3280.8400	FEET			
KILOMETERS	0.6214	MILES(STATUTE)	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
KILOMETERS	0.5400	MILES(NAUTICAL)	LITERS	0.2642	GALLONS
MILES(STATUTE)	1.6093	KILOMETERS	LITERS	0.0063	BARRELS(POL)
MILES(NAUTICAL)	6076.1154	FEET	LITERS	0.0010	CUBIC METERS
MILES(NAUTICAL)	1 8520	KILOMETERS	GALLONS	3.7854	LITERS
MILES(NAUTICAL)	18520000	METERS	GALLONS	0.1337	CUBIC FEET
			GALLONS	0.0238	BARRELS(POL)
			GALLONS	0.0038	CUBIC METERS
			BUSHELS	0.0352	CUBIC METERS
UNITS OF AREA			CUBIC FEET	7.4805	GALLONS
IF YOU HAVE	MULTIPLY BY	TO OBTAIN	CUBIC FEET	0.1781	BARRELS(POL)
SQUARE CENTIMETERS	0 1550	SQUARE INCHES	CUBIC FFET	0.0283	CUBIC METERS
SQUARE INCHES	6.4516	SQUARE CENTIMETERS	CUBIC YARDS	0.7646	CUBIC METERS
SQUARE FEET	0.0929	SQUARE METERS	BARRELS(POL)	158.9873	LITERS
SQUARE YARDS	0.8361	SQUARE METERS	BARRELS(POL)	42.0000	GALLONS
SQUARE METERS	10.7639	SQUARE FEET	BARRELS(POL)	5.6146	CUBIC FEET
SQUARE METERS	1.1960	SQUARE YARDS	BARRELS(POL)	0.1590	CUBIC METERS
SQUARE METERS	1.0000	CENTARES	CUBIC METERS	1000.0000	LITERS
SQUARE METERS	0.0002	ACRES	CUBIC METERS	264.1721	GALLONS
SQUARE METERS	0.0001	HECTARES	CUBIC METERS	35.3147	CUBIC FEET
ACRES	4046 8564	SOJARE METERS	CUBIC METERS	283776	BUSHELS
ACRES	0.4047	HECTARES	CUBIC METERS	6 2 8 9 8	BARRELS(POL)
HECTARES	10000.0000	SQUARE METERS	CUBIC METERS	1.3080	CUBIC YARDS
HECTARES	2.4711	ACRES			

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